

Appl. No. 10/015,241
Amdt. dated 05/26/2004
Reply to Office Action of 03/08/2004

IN THE CLAIMS:

Please amend Claims 1, 4, 5, 7 and 11 - 19 as shown below, cancel Claims 3 and 6 and enter new Claims 20 - 33.

1. (Currently amended) A method of storing data into two ~~incompatibly formatted~~ storage systems, the two storage systems being incompatibly formatted with each other, the method comprising the steps of:

determining whether the data is to be stored into the two ~~incompatibly formatted~~ storage systems; and

AS
forwarding the data, if the data is to be stored into the two storage systems, to the two logical volume managers (LVMs) for storing the data, each one of the two LVMs managing one of the two storage systems
~~incompatibly formatted storage systems for storage if so determined, each one of the two incompatibly formatted storage systems being managed by a logical volume manager (LVM).~~

2. (original) The method of Claim 1 wherein the determining step is performed by one of the two LVMs.
3. Canceled.
4. (Currently amended) The method of Claim 3 20 wherein the data is forwarded to the ~~other~~ LVM that is not performing the determining step.

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5. (Currently amended) A method of storing data into two ~~incompatibly formatted~~ storage systems, the two storage systems being incompatibly formatted with each other, the method comprising the steps of:

forwarding the data to a first logical volume manager (LVM), the first LVM determining whether the data is to be stored into the two ~~incompatibly formatted~~ storage systems; and

forwarding the data to a second LVM for storage if so determined.

- AS
6. Canceled.

7. (Currently amended) A method of reading data ~~from an incompatibly formatted storage system~~ by a computer system comprising the steps of:

determining whether the data is to be read from a storage system that is incompatibly formatted with storage systems that the computer system ordinarily uses;

requesting the data from the ~~incompatibly formatted~~ storage system;

converting the data into a ~~compatible~~ format compatible with a format of data stored in the storage systems that the computer system ordinarily uses; and

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forwarding the data to ~~be used~~ the computer system.

8. (original) The method of Claim 7 wherein the requesting step is performed by a first logical volume manager (LVM).
9. (original) The method of Claim 8 wherein the request is sent to a second LVM.
10. (original) The method of Claim 9 wherein the converting step is performed by the first LVM.
11. (Currently amended) A computer program product on a computer readable medium for storing data into two ~~incompatibly formatted~~ storage systems, the two storage system being incompatibly formatted with each other, the computer program product comprising:

code means for determining whether the data is to be stored into the two ~~incompatibly formatted~~ storage systems; and

code means, if the data is to be stored in the two storage systems, for forwarding the data to the two incompatibly formatted storage systems logical volume managers (LVMs) for storage, each one of the two LVMs managing one of the two storage systems if so determined, each one of the two incompatibly formatted

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~~storage systems being managed by a logical volume manager (LVM).~~

12. (Currently amended) A computer program product on a computer readable medium for storing data into two ~~incompatibly formatted~~ storage systems, the two storage systems being incompatibly formatted with each other, the computer program product comprising:

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first code means for forwarding the data to a first logical volume manager (LVM), the first LVM determining whether the data is to be stored into the two ~~incompatibly formatted~~ storage systems; and

second code means for forwarding the data to a second LVM for storage if so determined.

13. (Currently amended) A computer program product on a computer readable medium for reading data from an ~~incompatibly formatted~~ a storage system by a computer system, the storage system being incompatibly formatted with storage systems that are ordinarily used by the computer system, the computer program product comprising:

code means for requesting the data from the ~~incompatibly formatted~~ storage system;

code means for converting the data into a format compatible with a format of data stored in the storage

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systems that are ordinarily used by the computer system; and

code means for forwarding the data to ~~be used~~ the computer system.

14. (Currently amended) An apparatus for storing data into two ~~incompatibly formatted~~ storage systems, the two storage systems being incompatibly formatted with each other, the apparatus comprising:

means for determining whether the data is to be stored into the two ~~incompatibly formatted~~ storage systems; and

AS
means, if the data is to be stored into the two storage systems, for forwarding the data to the two logical volume managers (LVMs) for storage, each one of the two LVMs managing one of the two storage systems ~~incompatibly formatted storage systems for storage if so determined, each one of the two incompatibly formatted storage systems being managed by a logical volume manager (LVM).~~

15. (Currently amended) An apparatus for storing data into two ~~incompatibly formatted~~ storage systems, the two storage systems being incompatibly formatted with each other, the apparatus comprising:

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first means for forwarding the data to a first logical volume manager (LVM), the first LVM determining whether the data is to be stored into the two ~~incompatibly formatted~~ storage systems; and

second means for forwarding the data to a second LVM for storage if so determined.

16. (Currently amended) An apparatus for reading data from ~~an incompatibly formatted~~ a storage system by a computer system, the storage system being incompatibly formatted with storage systems ordinarily used by the computer system, the apparatus comprising:

AS
means for requesting the data from the ~~incompatibly formatted~~ storage system;

means for converting the data into a format compatible with a format of data stored in the storage systems ordinarily used by the computer system; and

means for forwarding the data to ~~be used~~ the computer system.

17. (Currently amended) A computer system for storing data into two ~~incompatibly formatted~~ storage systems, the two storage systems being incompatibly formatted with each other, the computer system comprising:

at least one storage device for storing code data; and

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at least one processor for processing the code data to determine whether the data is to be stored into the two ~~incompatibly formatted~~ storage systems and to forward the data, if the data is to be stored into the two storage systems, to the two logical volume managers (LVMs) for storing the data, each one of the two LVMs managing one of the two storage systems ~~incompatibly formatted storage systems for storage if so determined, each one of the two incompatibly formatted storage systems being managed by a logical volume manager (LVM).~~

- AS
18. (Currently amended) A computer system for storing data into two ~~incompatibly formatted~~ storage systems, the two storage systems being incompatibly formatted with each other, the computer system comprising:

at least one storage device for ~~storing~~ holding code data; and

at least one processor for processing the code data to forward the data to a first logical volume manager (LVM), the first LVM determining whether the data is to be stored into the two ~~incompatibly formatted~~ storage systems and to forward the data to a second LVM for storage if so determined.

19. (Currently amended) A computer system for reading data from ~~an incompatibly formatted~~ a storage system, the

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storage system being incompatibly formatted with storage systems ordinarily used by the computer system, the computer system comprising:

at least one storage device for storing code data; and

at least one processor for processing the code data to request the data from the ~~incompatibly formatted~~ storage system, to convert the data into a format compatible with format of data stored in the storage systems ordinarily used by the computer system and to forward the data to ~~be used~~ the computer system.

- AS
20. (New) A method of storing data into two storage systems, the two storage systems being incompatibly formatted with each other, the method comprising the steps of:

determining whether the data is to be stored into the two storage systems; and

forwarding the data, if the data is to be stored into the two storage systems, to two logical volume managers (LVMs) for storing the data, each one of the two LVMs managing one of the two storage systems and one of the two LVMs determining whether the data is to be stored into the two storage systems and forwarding the data to the other LVM if it is so determined.

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21. (New) A method of storing data into two storage systems, the two storage systems being incompatibly formatted with each other, the method comprising the steps of:

forwarding the data to a first logical volume manager (LVM), the first LVM determining whether the data is to be stored into the two storage systems; and

forwarding the data, using the first LVM, to a second LVM for storage if so determined.

- AS 22. (New) A method of storing data into a first and a second storage systems, the first storage system for storing data that is compatible with data usable by a system and the second storage system for storing data that is incompatible with data usable by the system, the method comprising the steps of:

determining whether the data is to be stored into the first and the second storage systems, the data being formatted to be stored in the first storage system; and

storing the data, if the data is to be stored in the first and the second storage systems, in the first and the second storage systems by forwarding the data to a first logical volume manager (LVM) and a second LVM, the second LVM for converting the data into a format

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compatible with format of data stored in the second storage system.

23. (New) A method of storing data into a first and a second storage systems, the first storage system for storing data that is compatible with data usable by a system and the second storage system for storing data that is incompatible with data usable by the system, the method comprising the steps of:

AS
forwarding the data to a first logical volume manager (LVM), the data being formatted to be stored in the first storage system, the first LVM determining whether the data is to be stored into the first and the second storage systems; and

forwarding, if it is determined that the data is to be stored into the first and the second storage systems, the data to a second LVM for storing the data into the second storage system, the second LVM for converting the data into a format compatible with format of data stored in the second storage system.

24. (New) A method of reading data, by a system, from a storage system that stores data that is incompatible with data usable by the system, the method comprising the steps of:

requesting the data from the storage system;

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converting, using a first logical volume manager (LVM), the data into a format compatible with format of data usable by the system; and

forwarding the data to be used.

- AS
25. (New) A computer program product on a computer readable medium for storing data into a first and a second storage systems, the first storage system for storing data that is compatible with data usable by a system and the second storage system for storing data that is incompatible with data usable by the system, the computer program product comprising:

code means for determining whether the data is to be stored into the first and the second storage systems, the data being in a format compatible with data stored in the first storage system; and

code means for storing the data, if the data is to be stored in the first and the second storage systems, in the first and the second storage systems by forwarding the data to a first logical volume manager (LVM) and a second LVM, the second LVM for converting the data into a format compatible to format of data stored in the second storage system.

26. (New) A computer program product on a computer readable medium for storing data into a first and a second storage systems, the first storage system for

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storing data that is compatible with data usable by a system and the second storage system for storing data that is incompatible with data usable by the system, the computer program product comprising:

first code means for forwarding the data to a first logical volume manager (LVM), the first LVM determining whether the data is to be stored into the the first and the second storage systems; and

AS
second code means, if the data is to be stored in the first and the second storage systems, for forwarding the data to a second LVM, the second LVM for converting the data into a format compatible with format of data stored in the second storage system.

27. (New) A computer program product on a computer readable medium for enabling a system to read data from a storage system containing data that is incompatibly formatted with data usable by a system comprising:

code means for requesting the data from the storage system;

code means for converting, using a first logical volume manager (LVM), the data into a format compatible with format of data usable by the system; and

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code means for forwarding the data to be used.

28. (New) An apparatus for storing data into a first and a second storage systems, the first storage system for storing data having a format compatible with format of data usable by a system, the second storage system for storing data having a format that is incompatible with format of data usable by the system, the apparatus comprising:

AS
means for determining whether the data is to be stored into the first and the second storage systems, the data having a format compatible with format of data usable by the system; and

means for storing the data, if the data is to be stored in the first and the second storage systems, in the first and the second storage systems by forwarding the data to a first logical volume manager (LVM) and a second LVM, the second LVM for converting the data into a format compatible with format of data stored in the second storage system.

29. (New) An apparatus for storing data into a first and a second storage systems, the first storage system for storing data having a format compatible with format of data usable by a system, the second storage system for storing data having a format that is incompatible with format of data usable by the system, the apparatus comprising:

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first means for forwarding the data to a first logical volume manager (LVM), the first LVM determining whether the data is to be stored into the first and the second storage systems, the data being in a format compatible with format of data usable by the system;

second means, if the data is to be stored in the first and the second storage systems, for forwarding the data to a second LVM, the second LVM for converting the data into a format compatible with format of data stored in the second storage system; and

AS
means for storing the data in the first and the second storage systems.

30. (New) An apparatus for reading data from a storage system containing data having a format that is incompatible with format of data usable by a system, the apparatus comprising:

means for requesting the data from the storage system;

means for converting the data into a format that is compatible with format of data usable by the system; and

means for forwarding the data to the system.

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31. (New) A computer system for storing data into a first and a second storage systems, the first storage system for storing data having a format compatible with format of data usable by the computer system, the second storage system for storing data having a format that is incompatible with format of data usable by the computer system, the computer system comprising:

at least one storage device for storing code data; and

AS
at least one processor for processing the code data to determine whether the data is to be stored into the first and the second storage systems, the data being in a format that is compatible with format of data stored in the first storage system and to store the data, if the data is to be stored in the first and the second storage systems, in the first and the second storage systems by forwarding the data to a first logical volume manager (LVM) and a second LVM, the second LVM for converting the data into a format compatible with format of data stored in the second storage system.

32. (New) A computer system for storing data into a first and a second storage systems, the first storage system for storing data having a format compatible with format of data that is usable by the computer system, the second storage system for storing data having a format that is incompatible with format of data that

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is usable by the computer system, the computer system comprising:

at least one storage device for storing code data; and

at least one processor for processing the code data to forward the data to a first logical volume manager (LVM), the first LVM determining whether the data is to be stored into the first and the second storage systems, the data being in a format compatible with format of data usable by the computer system and to forward the data, if the data is to be stored into the first and the second storage systems, to a second LVM, the second LVM for converting the data into a format compatible with format of data stored into the second storage system and to store the data into the first and the second storage systems.

33. (New) A computer system for reading data from a storage system containing data having a format that is incompatible with format of data usable by the computer system, the computer system comprising:

at least one storage device for storing code data; and

at least one processor for processing the code data to request the data from the storage system, to convert the data into a format compatible with format of data usable by the computer system and to forward the data to the computer system.

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